

[illegible]

(i) APPLICANT: Sims, Peter J.

(ii) TITLE OF INVENTION: Compositions and Methods to Inhibit the C5b-9 Complex of Complement

~~(iv) CORRESPONDENCE ADDRESS:~~

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(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US

(B) FILING DATE: 03-FEB-1998

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Pabst, Patrea L.

(B) REGISTRATION NUMBER: 31,284

(C) REFERENCE/DOCKET/NUMBER: OMRF/170

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 404/873-8794

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 127 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Human

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Gly Ile Gln Gly Gly Ser Val Leu Phe Gly Leu Leu Leu Val Leu Ala
1 5 10 15

Val Phe Cys His Ser Gly His Ser Leu Gln Cys Tyr Asn Cys Pro Asn
20 25 30

Pro Thr Ala ~~Asp~~ Cys Lys Thr Ala Val Asn Cys Ser Ser Asp Phe Asp
35 40 45

Ala Cys Leu/Ile Thr Lys Ala Gly Leu Gln Val Tyr Asn Lys Cys Trp
50 55 60

Lys Phe ~~Glu~~ His Cys Asn Phe Asn Asp Val Thr Thr Arg Leu Arg Glu
65 70 75 80

Asn ~~Glu~~ Leu Thr Tyr Tyr Cys Cys Lys Lys Asp Leu Cys Asn Phe Asn
85 90 95

Glu Gln Leu Glu Asn Gly Gly Thr Ser Leu Ser Glu Lys Thr Val Leu
100 105 110

Leu Leu Val Thr Pro Phe Leu Ala Ala Ala Trp Ser Leu His Pro
115 120 125

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 124 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Rabbit
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Thr Ser Arg Gly Val His Leu Leu Leu Arg Leu Leu Phe Leu Leu
1 5 10 15

Ala Val Phe Tyr Ser Ser Asp Ser Ser Leu Met Cys Tyr His Cys Leu
20 25 30

Leu Pro Ser Pro Asn Cys Ser Thr Val Thr Asn Cys Thr Pro Asn His
35 40 45

Asp Ala Cys Leu Thr Ala Val Ser Gly Pro Arg Val Tyr Arg Gln Cys
50 55 60

Trp Arg Tyr Glu Asp Cys Asn Phe Glu Phe Ile Ser Asn Arg Leu Glu
65 70 75 80

Glu Asn Ser Leu Lys Tyr Asn Cys Cys Arg Lys Asp Leu Cys Asn Gly
85 90 95

Pro Glu Asp Asp Gly Thr Ala Leu Thr Gly Arg Thr Val Leu Leu Val
100 105 110

Ala Pro Leu Leu Ala Ala Ala Arg Asn Leu Cys Leu
115 120

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Human
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Leu Gln Cys Tyr Asn Cys Pro Asn Pro Thr Ala Asp Cys Lys Thr Ala
1 5 10 15

Val Asn Cys Ser Ser Asp Phe Asp Ala Cys Leu Ile Thr Lys Ala Gly
20 25 30

Leu Gln Val Tyr Asn Lys Cys Trp Lys Phe Glu His Cys Asn Phe Asn
35 40 45

Asp Val Thr Thr Arg Leu Arg Glu Asn Glu Leu Thr Tyr Tyr Cys Cys
50 55 60

Lys Lys Asp Leu Cys Asn Phe Asn Glu Gln Leu Glu Asn
65 70 75

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 75 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Baboon
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Leu Gln Cys Tyr Asn Cys Pro Asn Pro Thr Thr Asn Cys Lys Thr Ala
1 5 10 15

Ile Asn Cys Ser Ser Gly Phe Asp Thr Cys Leu Ile Ala Arg Ala Gly
20 25 30

Leu Gln Val Tyr Asn Gln Cys Trp Lys Phe Ala Asn Cys Asn Phe Asn
35 40 45

Asp Ile Ser Thr Leu Leu Lys Glu Asn Glu Leu Gln Tyr Phe Cys Cys
50 55 60

Lys Glu Asp Leu Cys Asn Glu Gln Leu Glu Asn
65 70 75

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: African green monkey
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Leu Gln Cys Tyr Asn Cys Pro Asn Pro Thr Thr Asp Cys Lys Thr Ala
1 5 10 15

Ile Asn Cys Ser Ser Gly Phe Asp Thr Cys Leu Ile Ala Arg Ala Gly
20 25 30

Leu Gln Val Tyr Asn Gln Cys Trp Lys Phe Ala Asn Cys Asn Phe Asn
35 40 45

Asp Ile Ser Thr Leu Leu Lys Glu Ser Glu Leu Gln Tyr Phe Cys Cys
50 55 60

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(2) INFORMATION FOR SEO ID NO:9:

(2) INFORMATION FOR SEO ID NO:10:

506015.1

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(iii) HYPOTHETICAL: NO

(A) ORGANISM: Rabbit

Ser Leu Met Cys Tyr His Cys Leu Leu Pro Ser Pro Asn Cys Ser Thr
1 5 10 15

Val Thr Asn Cys Thr Pro Asn His Asp Ala Cys Leu Thr Ala Val Ser
20 25 30

Gly Pro Arg Val Tyr Arg Gln Cys Trp Arg Tyr Glu Asp Cys Asn Phe
35 40 45

Glu Phe Ile Ser Asn Arg Leu Glu Glu Asn Ser Leu Lys Tyr Asn Cys
50 55 60

Cys Arg Lys Asp Leu Cys Asn Gly Pro Glu Asp Asp Gly
65 70 75

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 79 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(iii) HYPOTHETICAL: NO

(A) ORGANISM: Rat

Leu Arg Cys Tyr Asn Cys Leu Asp Pro Val Ser Ser Cys Lys Thr Asn
1 5 10 15

Ser Thr Cys Ser Pro Asn Leu Asp Ala Cys Leu Val Ala Val Ser Gly
20 25 30

Lys Gln Val Tyr Gln Gln Cys Trp Arg Phe Ser Asp Cys Asn Ala Lys
35 40 45

Phe Ile Leu Ser Arg Leu Glu Ile Ala Asn Val Gln Tyr Arg Cys. Cys
50 55 60

Gln Ala Asp Leu Cys Asn Lys Ser Phe Glu Asp Lys Pro Asn Asn
65 70 75

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 74 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Mouse
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

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Leu Thr Cys Tyr His Cys Phe Gln Pro Val Val Ser Ser Cys Asn Met
1          5          10          15
Asn Ser Thr Cys Ser Pro Asp Gln Asp Ser Cys Leu Tyr Ala Val Ala
          20          25          30
Gly Met Gln Val Tyr Gln Arg Cys Trp Lys Gln Ser Asp Cys His Gly
          35          40          45
Glu Ile Ile Met Asp Gln Leu Glu Glu Thr Lys Leu Lys Phe Arg Cys
50          55          60
Cys Gln Phe Asn Leu Cys Asn Lys Ser Asp
65          70

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(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 82 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Human
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

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Leu Tyr Glu Leu Ile Tyr Val Leu Asp Lys Ala Ser Met Lys Arg Lys
1          5          10          15
Gly Val Glu Leu Lys Asp Ile Lys Arg Cys Leu Gly Tyr His Leu Asp
          20          25          30
Val Ser Leu Ala Phe Ser Glu Ile Ser Val Gly Ala Glu Phe Asn Lys
          35          40          45
Asp Asp Cys Val Lys Arg Gly Glu Gly Arg Ala Val Asn Ile Thr Ser
50          55          60
Glu Asn Leu Ile Asp Asp Val Val Ser Leu Ile Arg Gly Gly Thr Arg
65          70          75          80
Lys Tyr

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(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 86 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide

- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Rabbit
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Arg Tyr Glu Leu Ile Tyr Val Leu Asp Lys Ala Ser Met Lys Glu Lys
 1 5 10 15

Gly Ile Glu Leu Asn Asp Ile Lys Lys Cys Leu Gly Phe Asp Leu Asp
 20 25 30

Leu Ser Leu Asn Ile Pro Gly Lys Ser Ala Gly Leu Ser Leu Thr Gly
 35 40 45

Gln Ala Asn Lys Asn Asn Cys Leu Lys Ser Gly His Gly Asn Ala Val
 50 55 60

Asn Ile Thr Arg Ala Asn Leu Ile Asp Asp Val Ile Ser Leu Ile Arg
 65 70 75 80

Gly Gly Thr Gln Lys Phe
 85

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Ser Leu Met Cys Tyr His Cys Leu Leu Pro Ser Pro Asn Cys Ser Thr
 1 5 10 15

Val Thr Asn Cys Thr Pro Asn His Asp Ala Cys Leu Thr Ala Val Ser
 20 25 30

Gly Pro Arg Val Tyr Arg Gln Cys
 35 40

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
 1 5 10

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 amino acids
 - (B) TYPE: amino acid

- (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: peptide
 (iii) HYPOTHETICAL: NO
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Lys Cys Leu Gly Tyr His Leu Asp Val Ser Leu Ala Phe Ser Glu Ile
 1 5 10 15

Ser Val Gly Ala Glu Phe Asn Lys Asp Asp Cys
 20 25

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